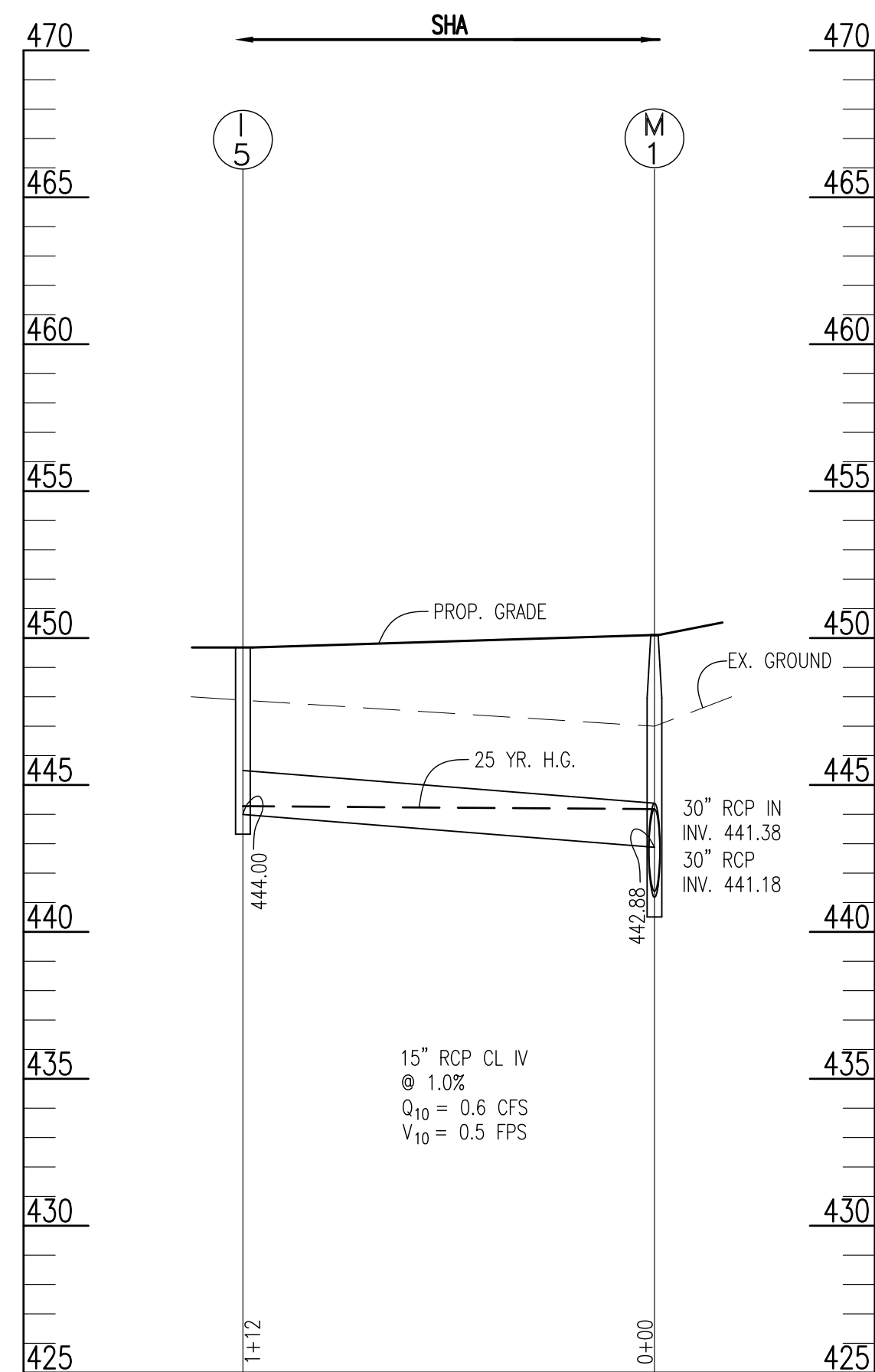


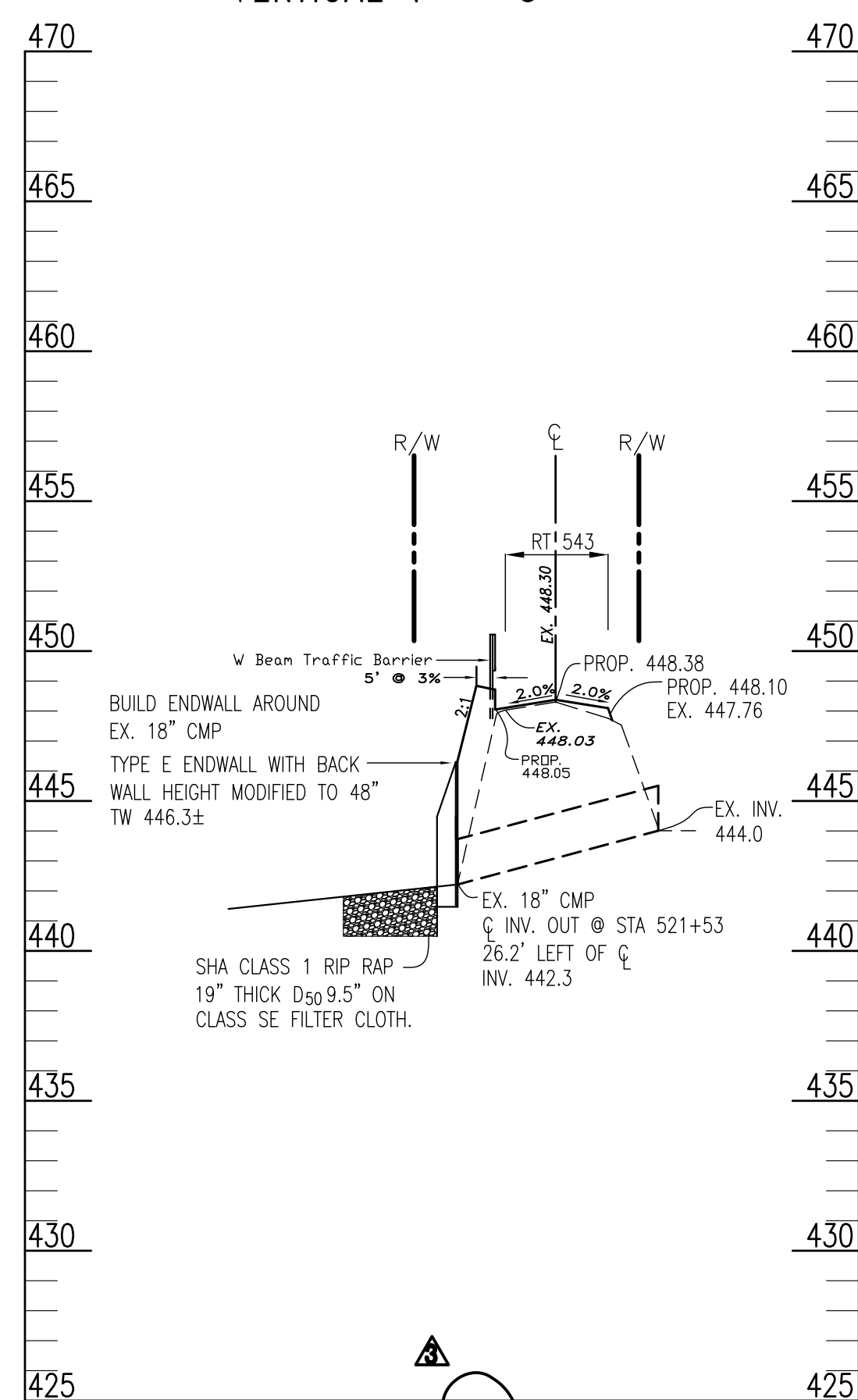
ES-1 TO MH-6

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'



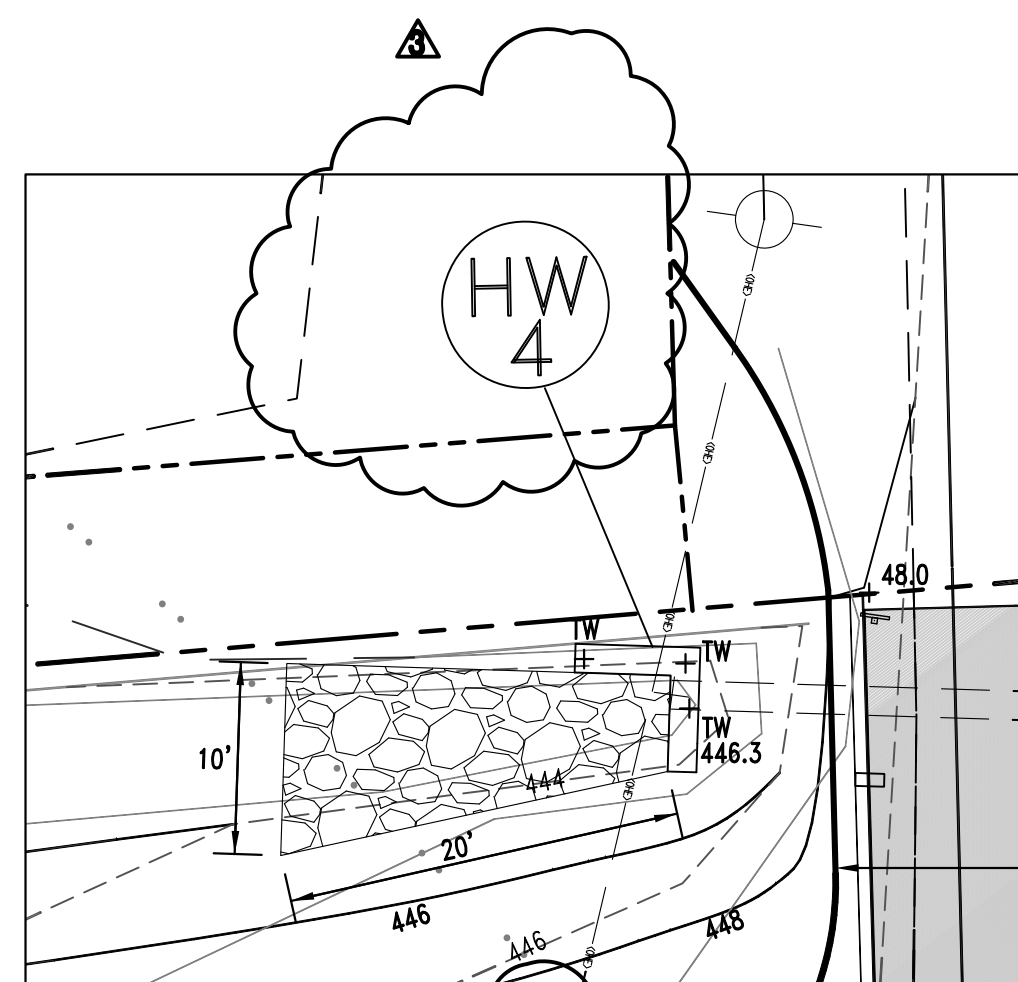
I-5 TO MH-1

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'



HEADWALL 4 PROFILE

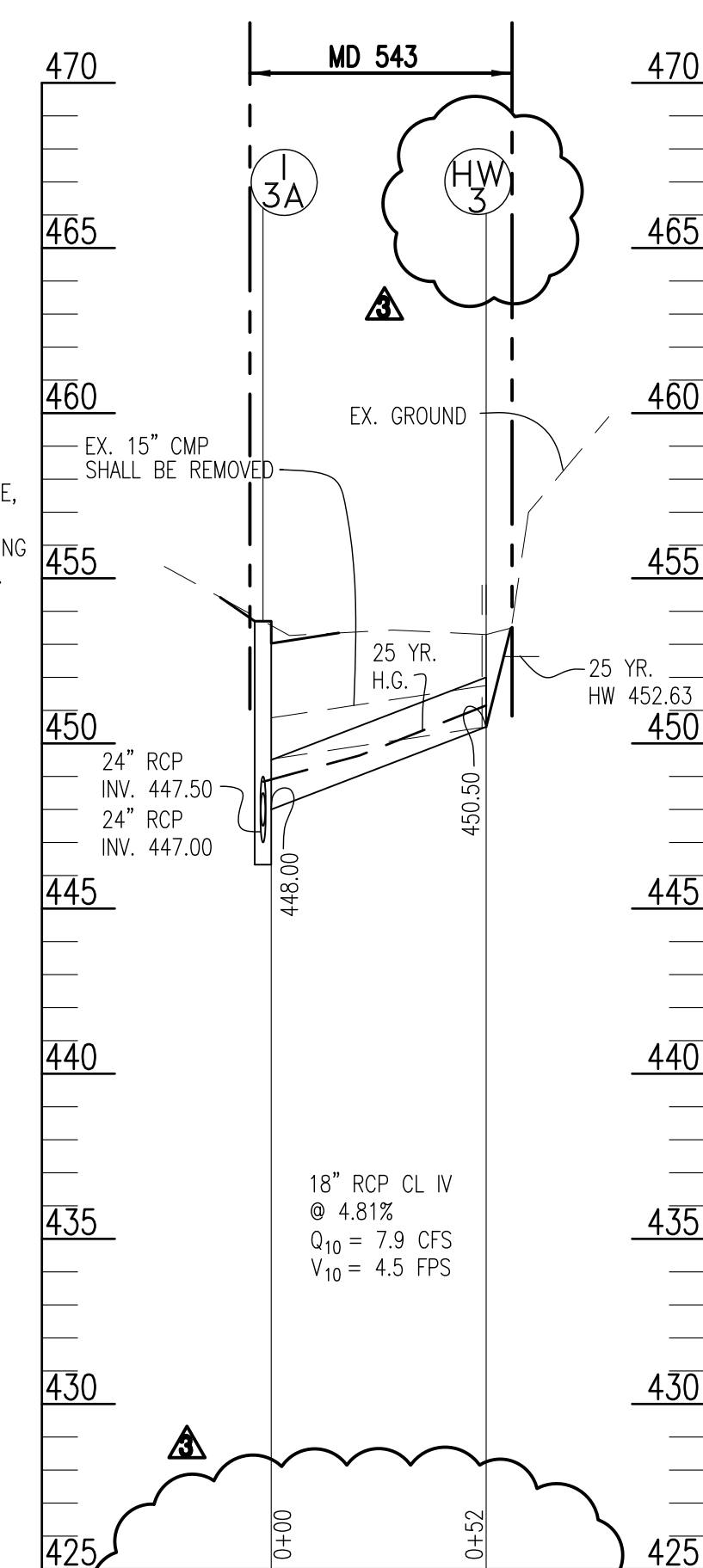
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'



HEADWALL 4 PLAN VIEW

SCALE: 1" = 10'

PLACE RIP RAP TO MEET EXISTING
CHANNEL BOTTOM AND SIDE SLOPES.



I-3A TO HW-3

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'

SHA STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.		REMARKS	LOCATION
				UPPER	LOWER		
M-5	4' PRECAST MH	EX. 455.5±	455.0	459.5		MD 384.01	SEE PLAN
I-4	10' COG	451.49	450.99	457.21	457.46	MD 374.51	SEE PLAN
I-3A	10' COG	447.50	448.0	451.3	451.11	MD 374.51	SEE PLAN
I-3	10' COG	444.98	444.48	452.1	451.91	MD 374.51	SEE PLAN
M-2	5' PRECAST MH	445.13	443.85	450.7		MD 384.03	SEE PLAN
I-2	10' COG	441.97	441.81	450.21	450.11	MD 374.51	SEE PLAN
I-5	10' COG			444.08	449.01	MD 374.51	SEE PLAN
M-1	5' PRECAST MH	442.88	441.38	450.1		MD 384.03	SEE PLAN
HW-3	TYPE C HEADWALL 18" DIA.		450.50			MD 354.01	SEE PLAN
HW-4	TYPE E* HEADWALL 18" DIA.		442.3±			MD 356.01	SEE PLAN

* MODIFIED HEIGHT OF BACK WALL (RECEIVING PIPE)
TO BE 48" HIGH (30" ABOVE TOP OF PIPE).
SLOPE SIDE WALL TO HEIGHT OF 27" AT END.



BMP ID # 120375
CONTRACT # 11-AP-HA-011

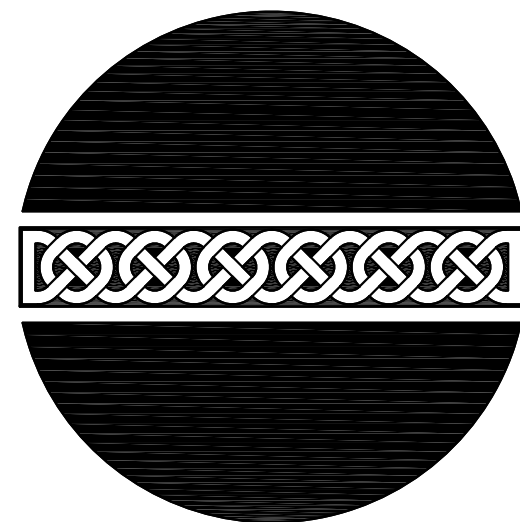
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MD 543 STORM DRAIN PROFILES & DETAILS

HARFORD COUNTY EOC PHASE 1

2220 ADY ROAD
FOREST HILL, MD 21050

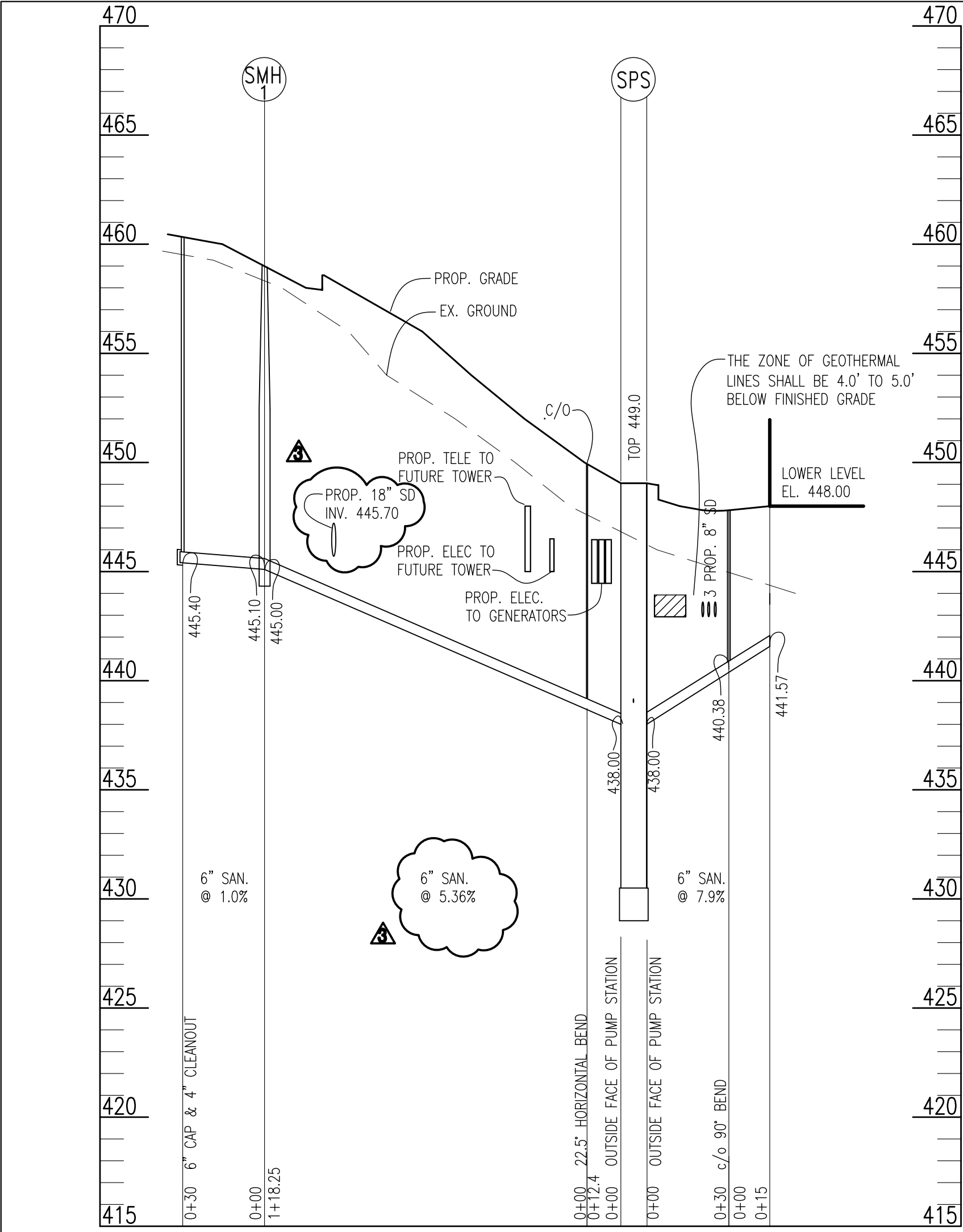
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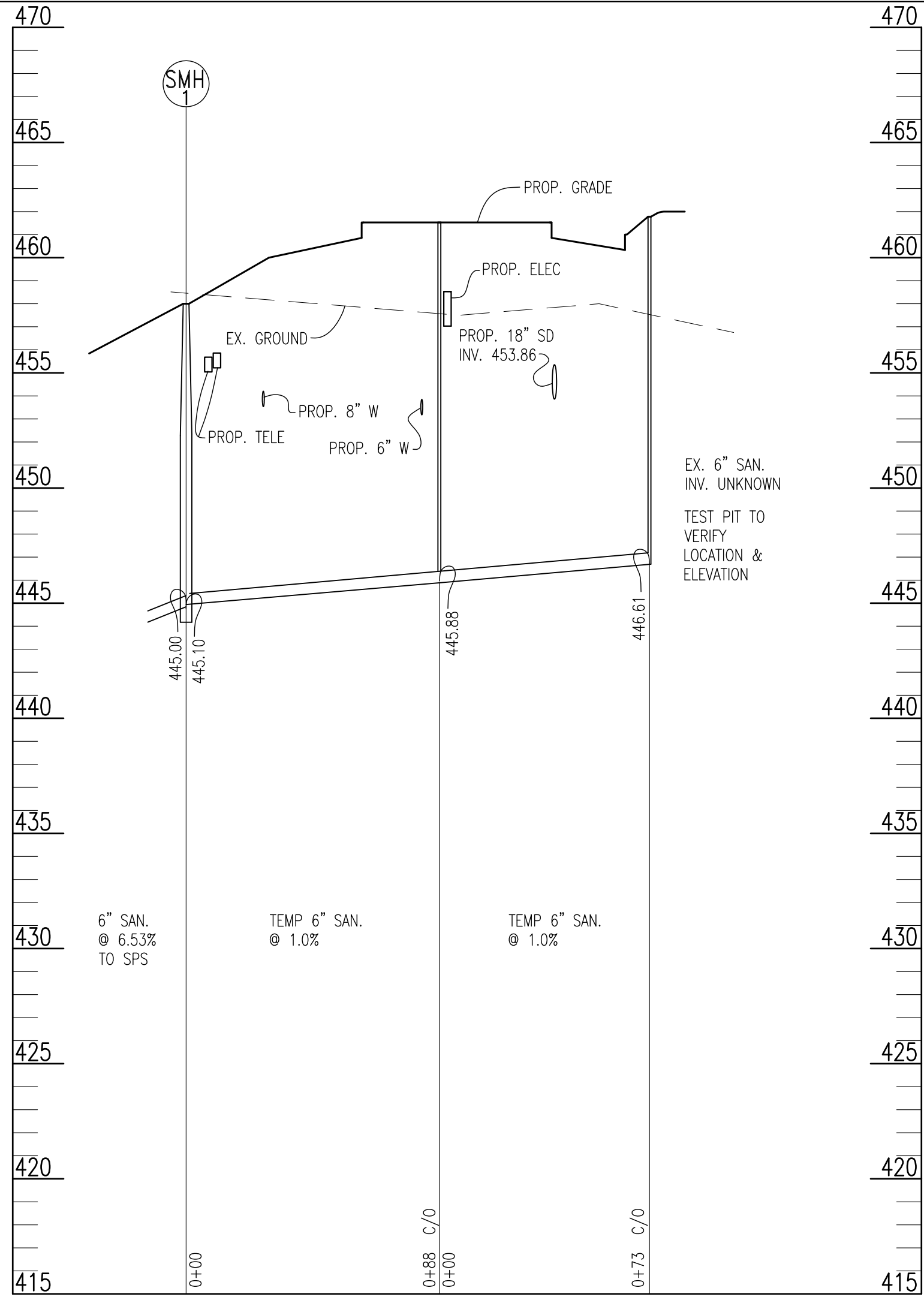
Rev: 2-25-13
Storm Drain Labels

Sheet No.
C 4.3



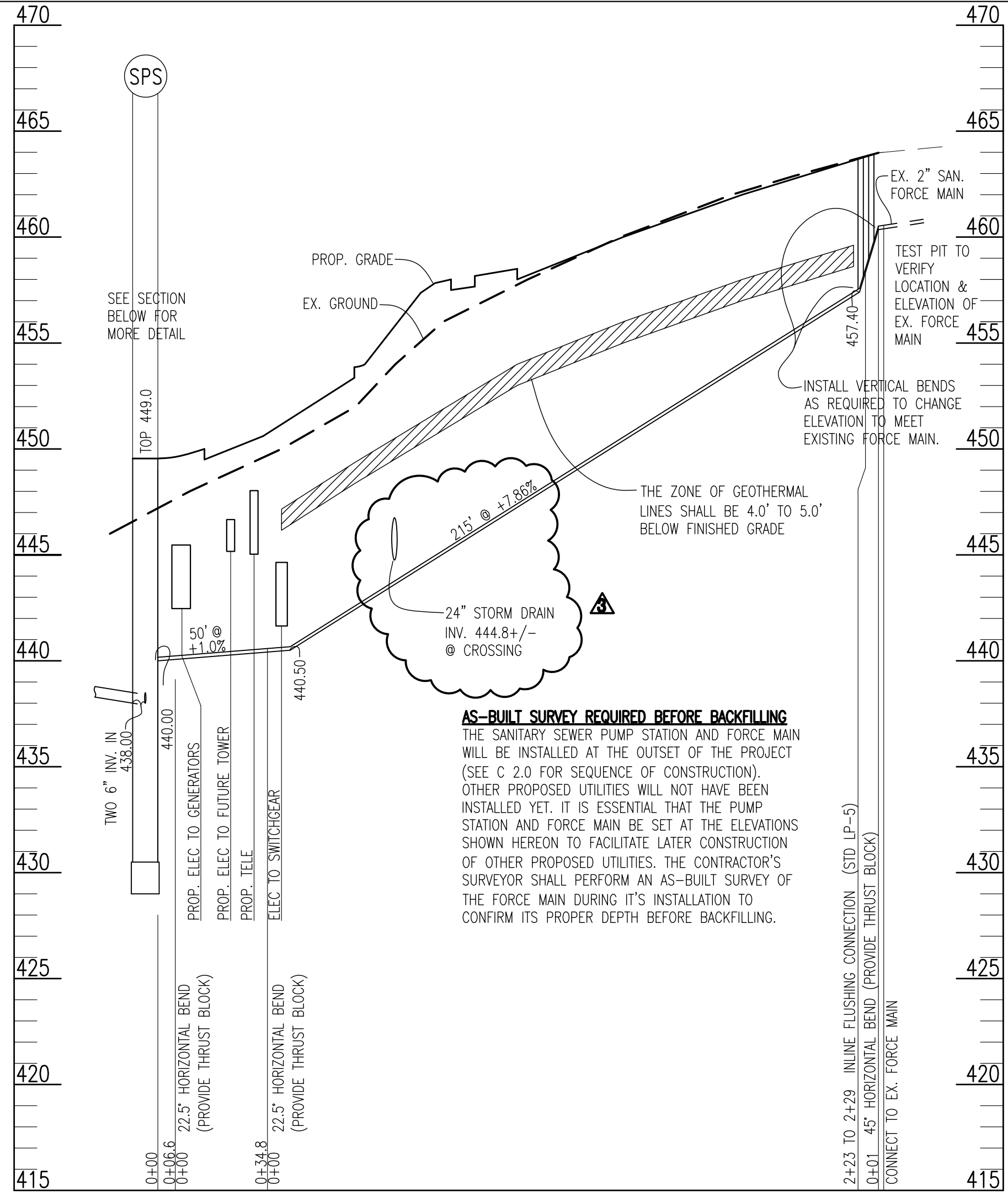
6" SANITARY PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'



TEMP. 6" SANITARY PROFILE

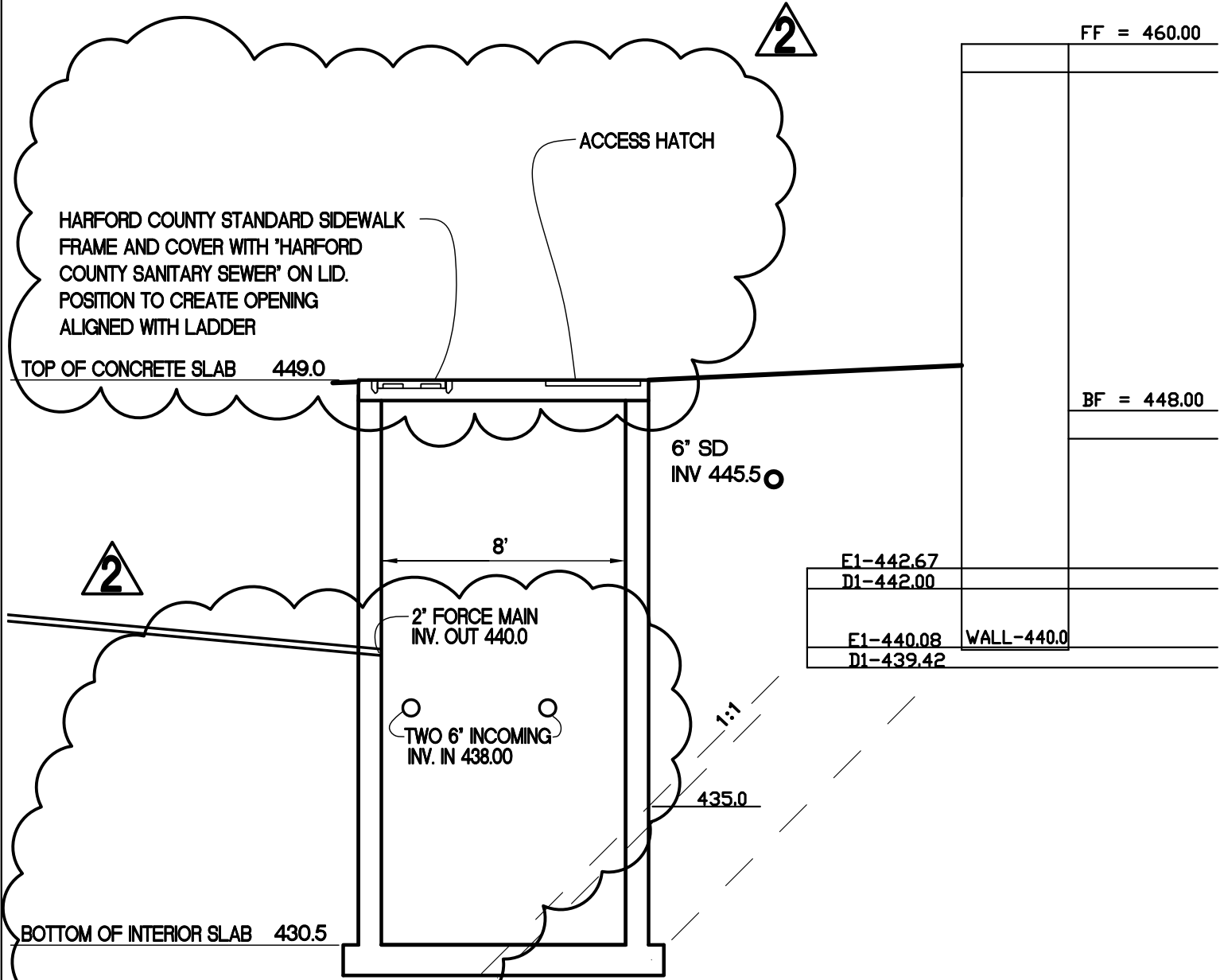
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'



2" SANITARY FORCE MAIN

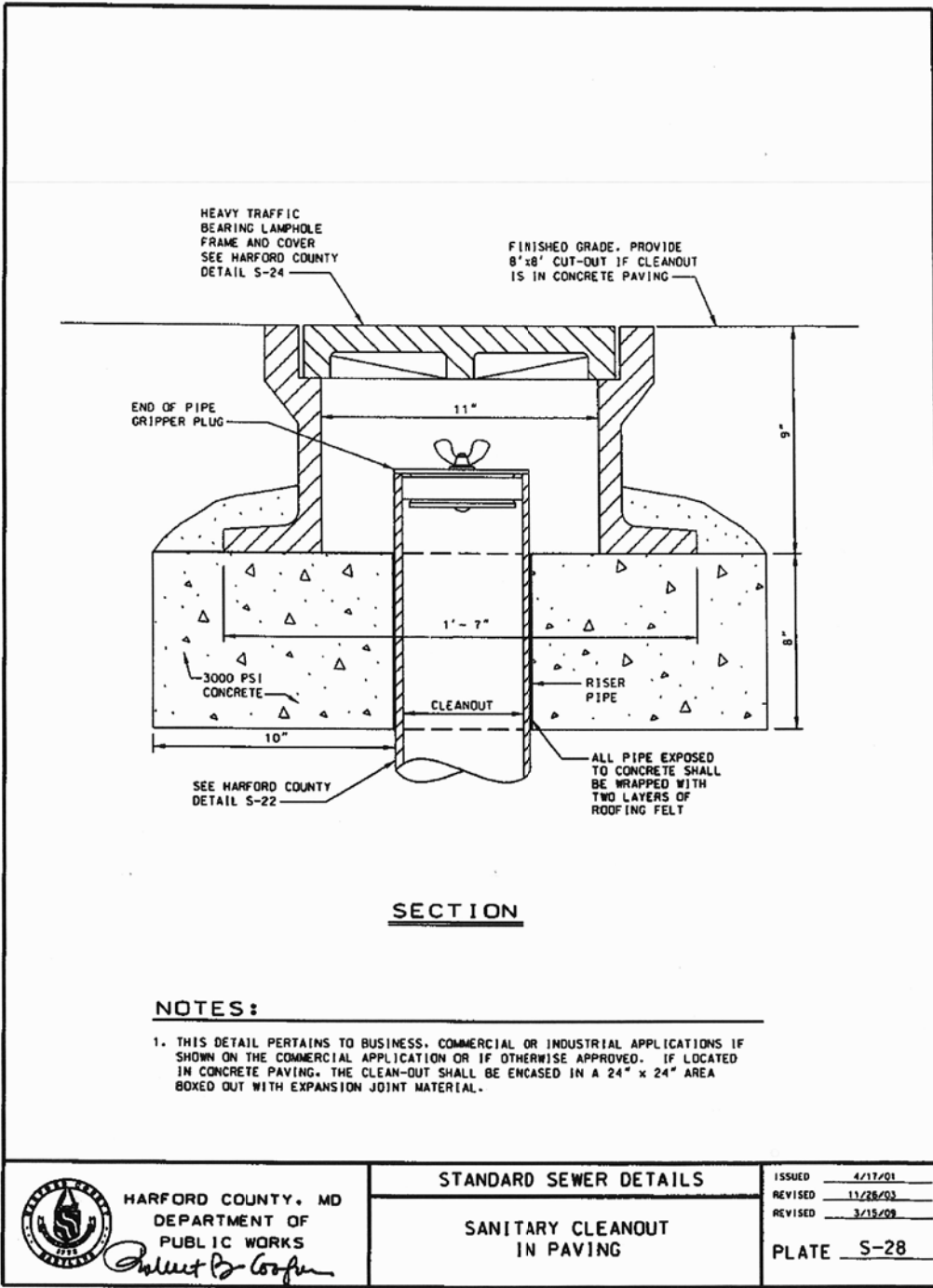
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 5'

The Contractor shall provide structural reinforcing and geotechnical services as required to prevent lateral movement of the sanitary pump station structure, which shall be designed to withstand a maximum assumed lateral earth pressure of 2.76ksf at the base of the manhole (1.26 conventional lateral earth pressure in addition to 1.5ksf unbalanced pressure imposed by the adjacent building foundation). The assumed 1.5ksf unbalanced lateral pressure will act on approximately the lower half of the manhole as directed by the geotechnical engineer in accordance with the building foundation's zone of influence, footing elevations, and manhole location relative to the building. In addition to submitting shop drawings for the sanitary sewer pump station, the Contractor shall submit structural computations, and an explanation of the backfilling operations and geotechnical services that will be performed during construction. The computations and planned construction shall take into account the fact that in accordance with the sediment control plans, construction of the sanitary pump station takes place at the outset of the project, before mass grading and building construction.



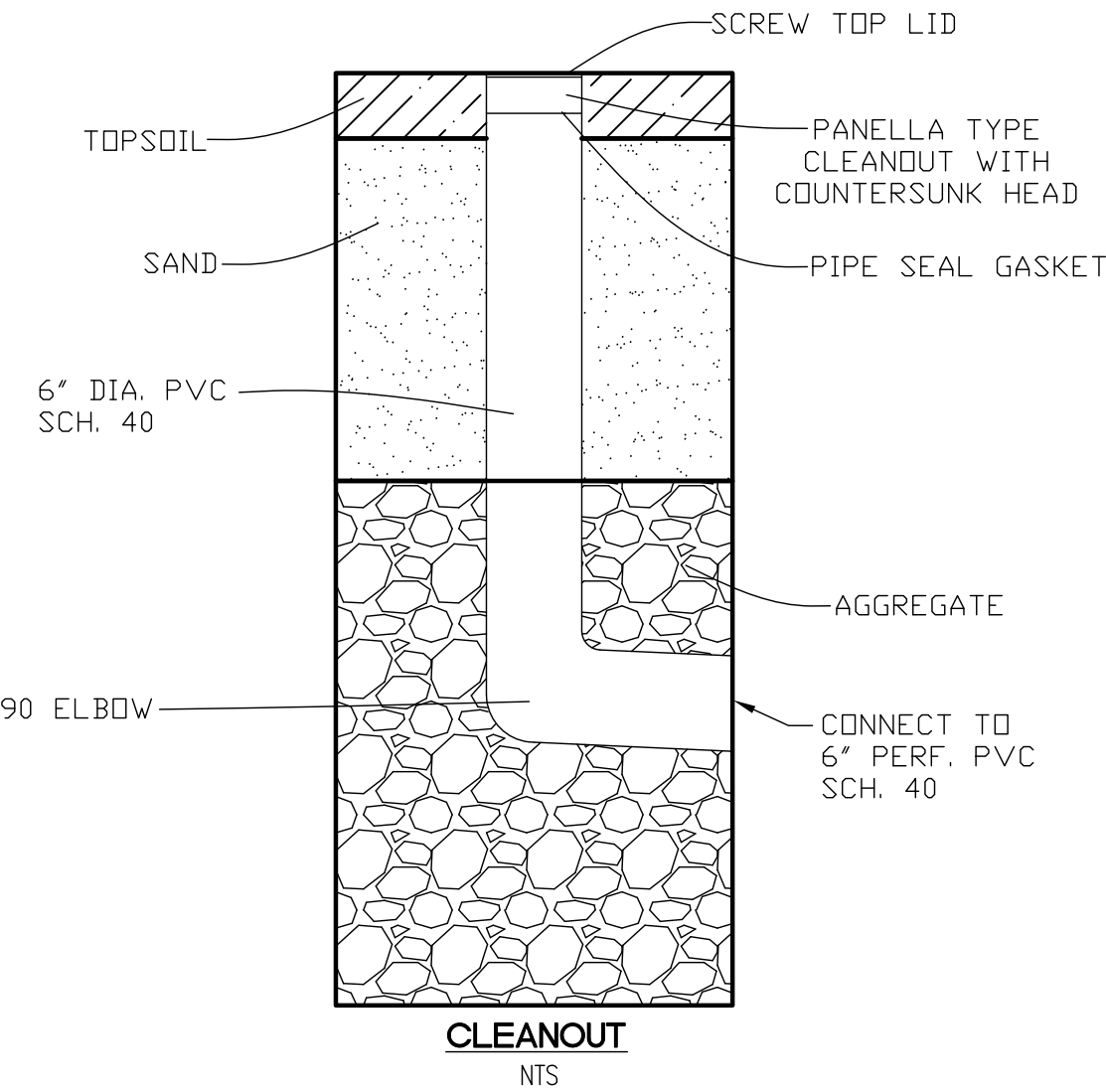
SECTION OF SANITARY PUMP STATION

SCALE: 1" = 5'



SANITARY STRUCTURE SCHEDULE					
#	TYPE	TOP ELEVATION	INV. IN	INV. OUT	REMARKS
SMH-1		458.84	445.1	445.0	HARF. CO. STD. PLATE

NOTE: THIS DETAIL SHALL ALSO BE USED FOR STORM DRAINAGE CLEANOUTS IN PAVING.



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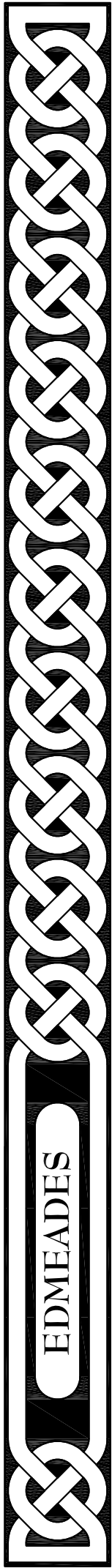
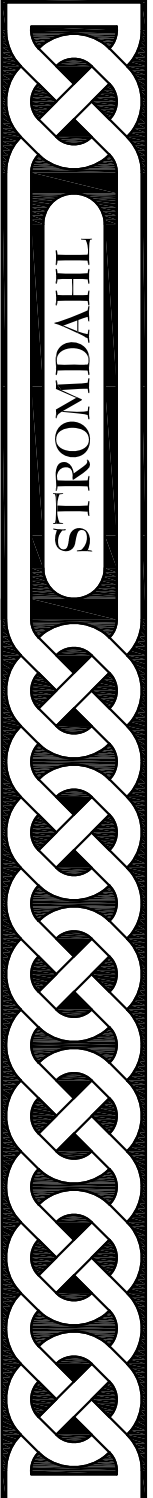
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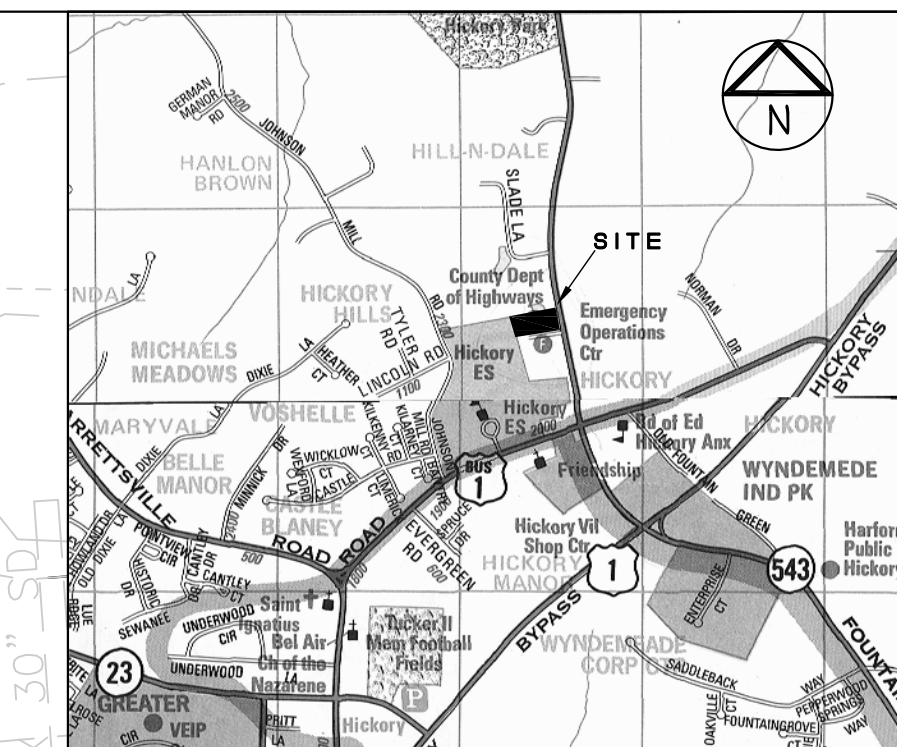
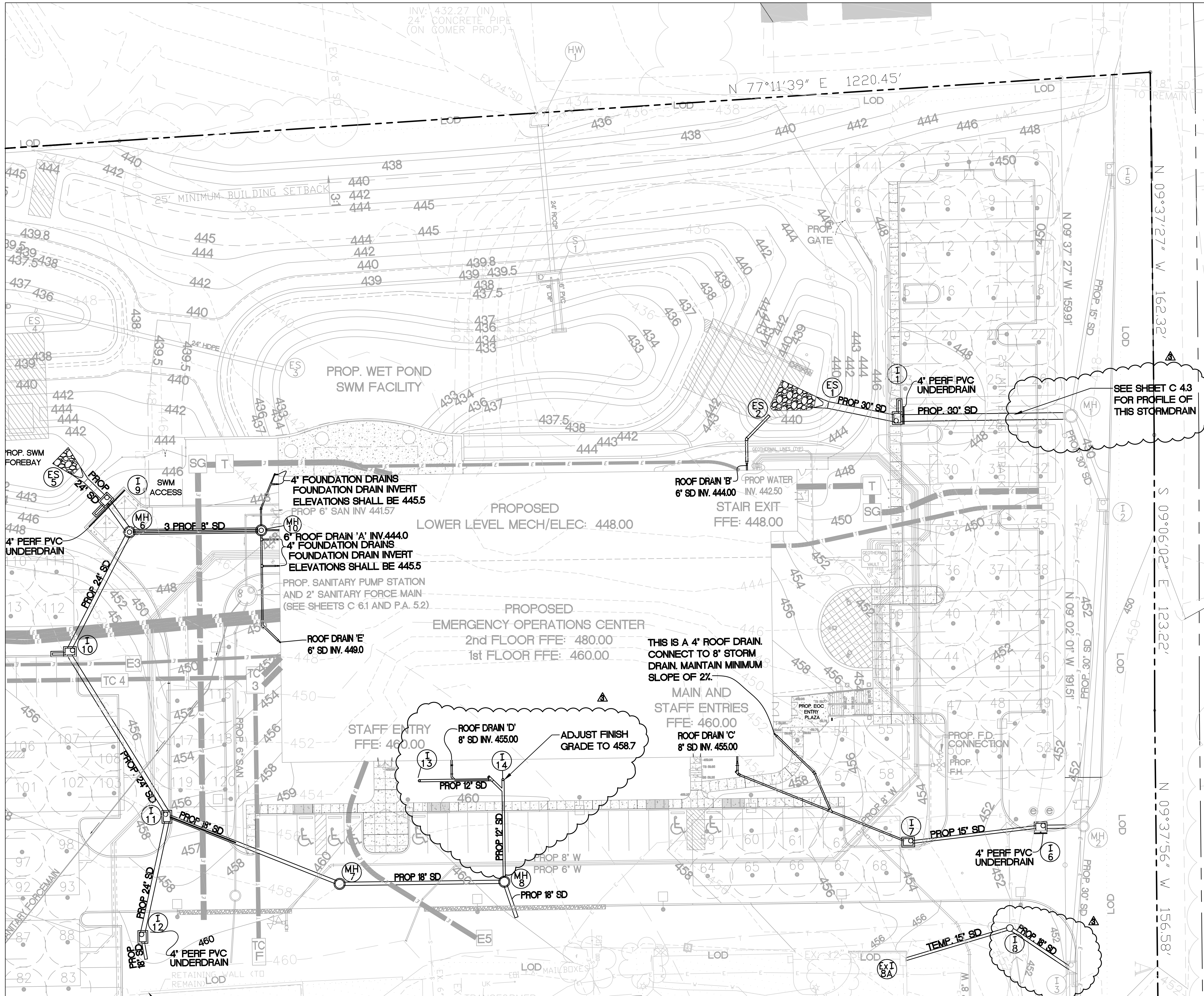


SANITARY SEWER PROFILES
HARFORD COUNTY EOC PHASE 1
2220 ADY ROAD
FOREST HILL, MD 21050

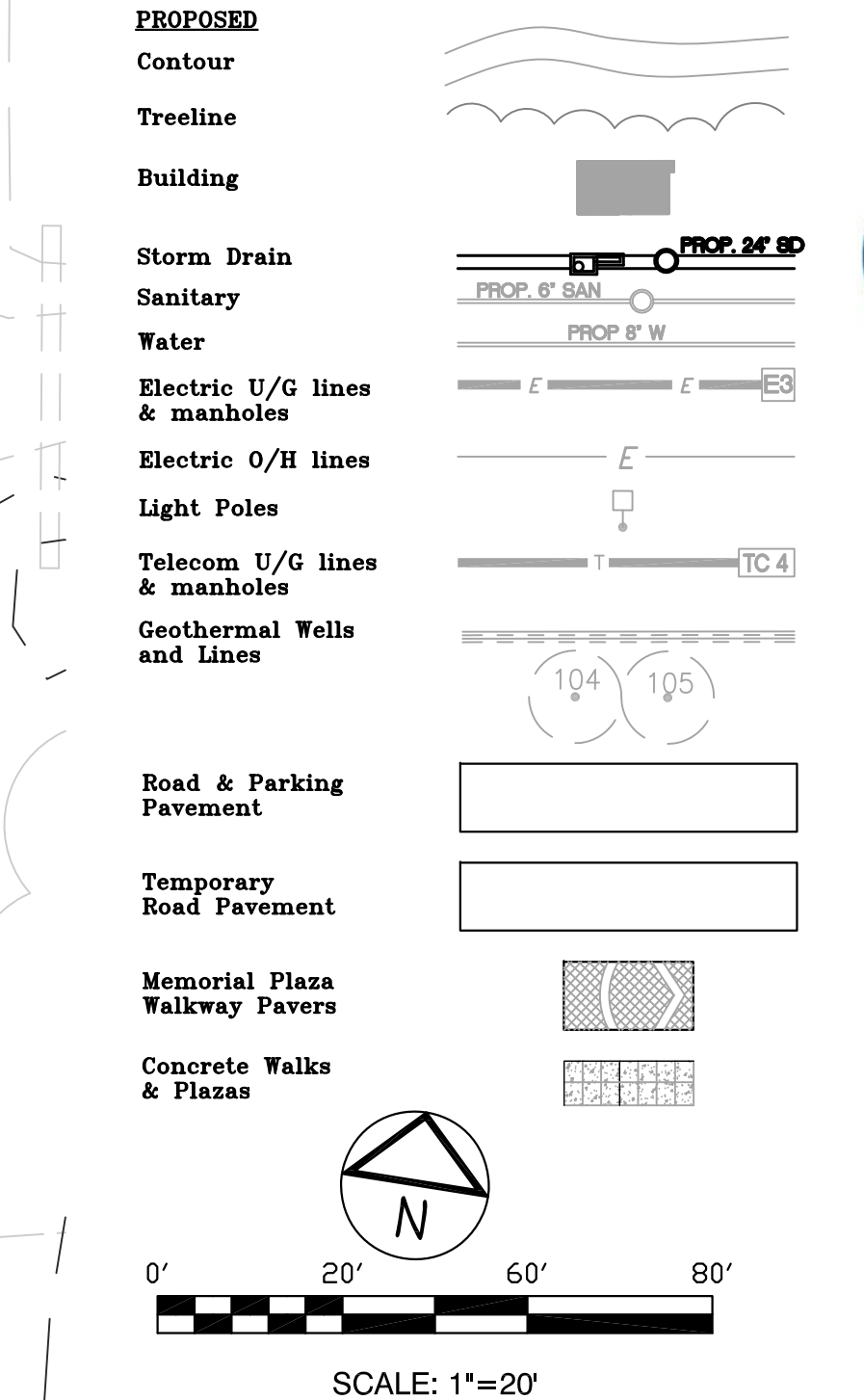
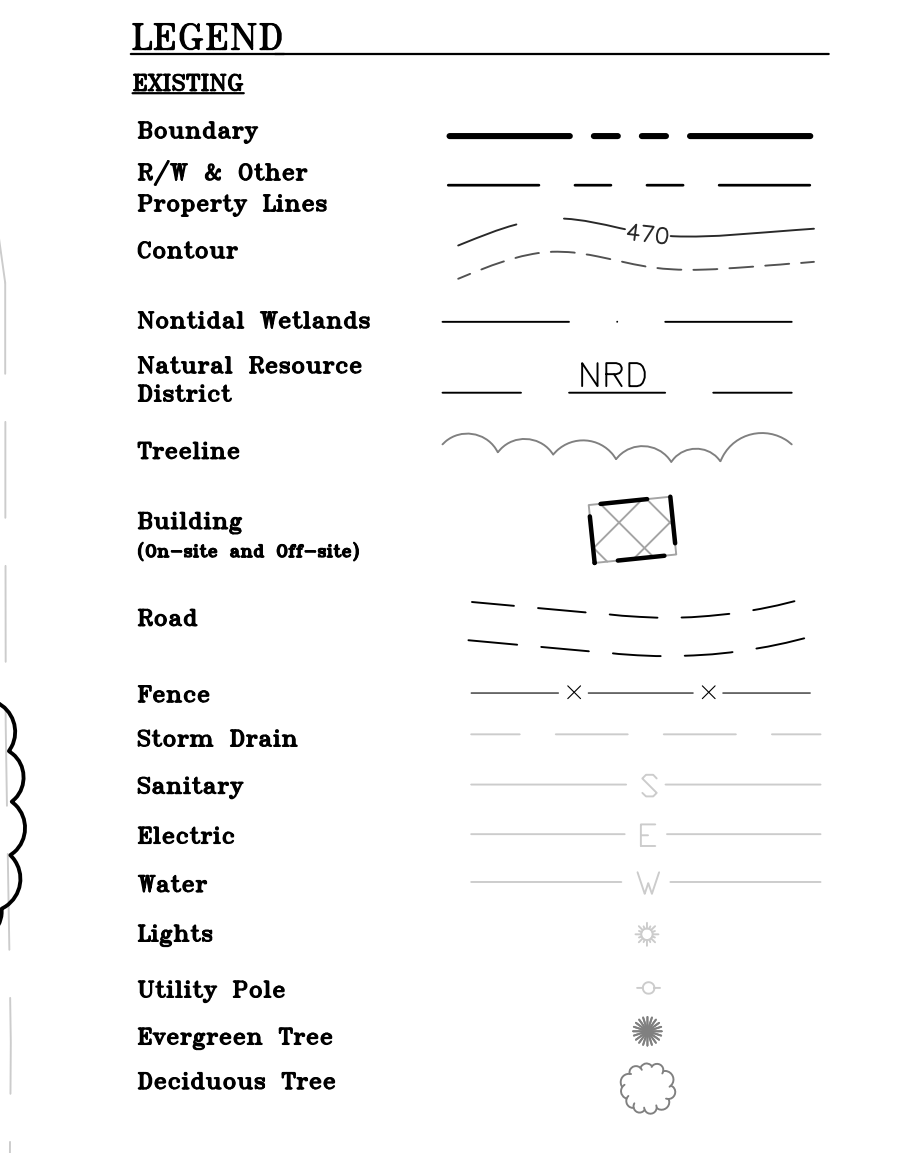
Job No: 08009
Date: 12-10-12
Rev: 2-15-13
2-25-13
Pump station manholes & elevations
Crossings & pipe slope

Sheet No.
C 6.1





VICINITY MAP Scale: 1" = 2000'
ADC The Map People - Permitted Use # 20612205



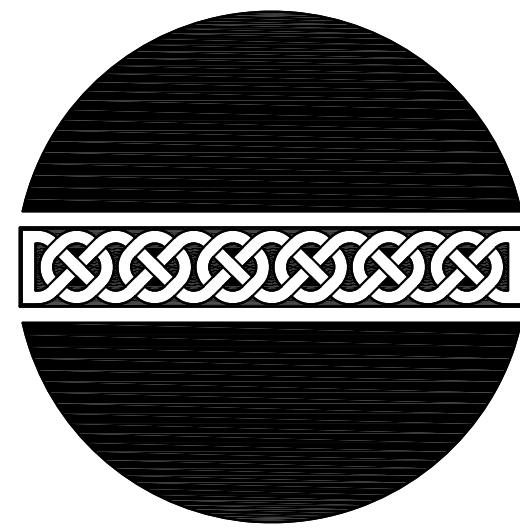
SEE MD 543 PLANS
(SHEETS C 4.0 THRU C 4.5)
FOR STORM DRAINS IN
STATE RIGHT-OF-WAY.

SEE S.W.M. PLANS
(SHEETS C 7.0 THRU C 7.6)
FOR STORM DRAINS
RELATED TO S.W.M.

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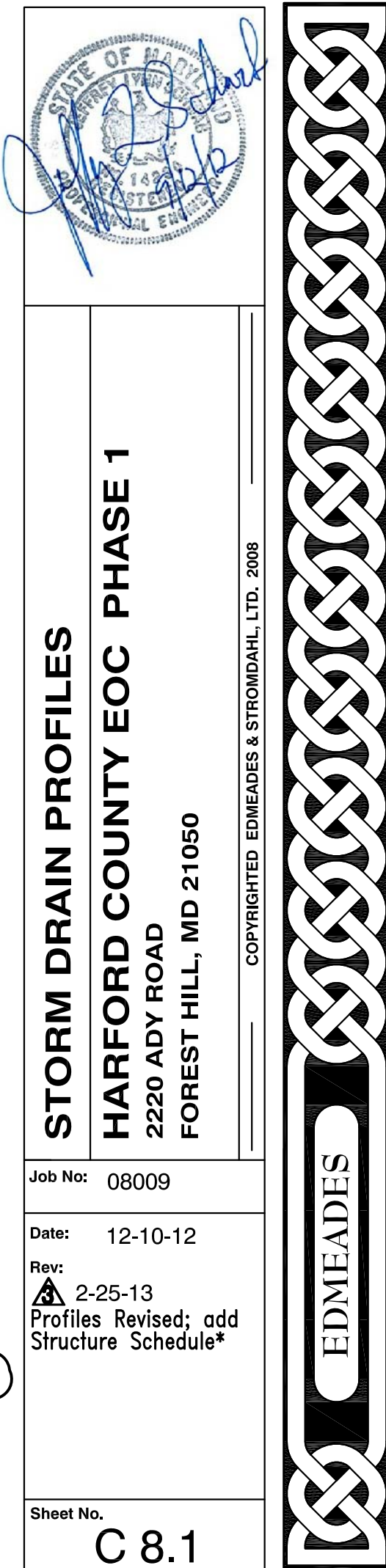
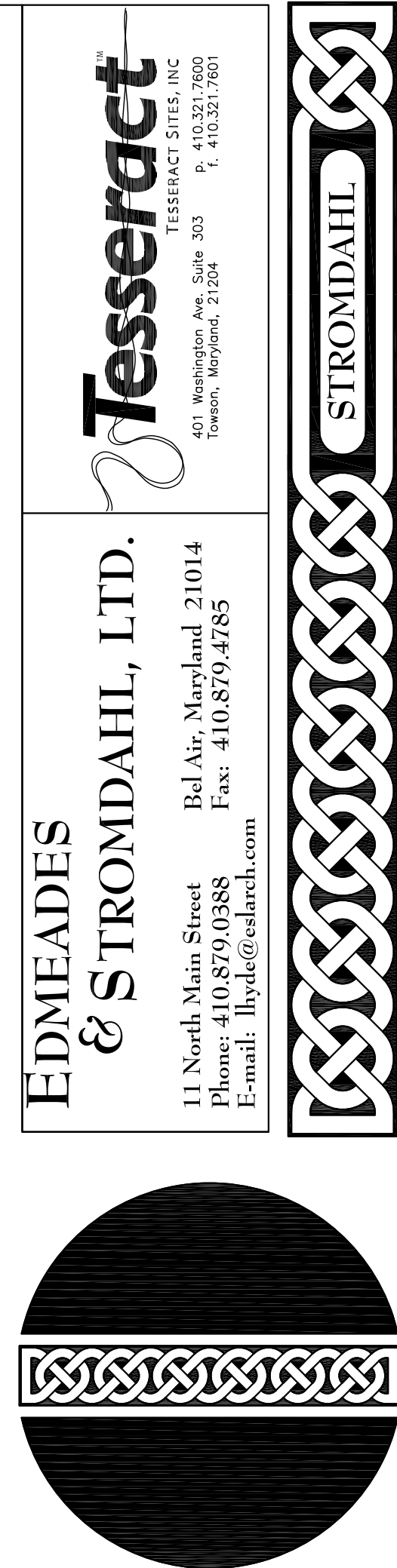
ON-SITE STORM DRAIN PLAN
HARFORD COUNTY EOC PHASE 1
2220 ADY ROAD
FOREST HILL, MD 21050

Job No: 08009
Date: 12-10-12
Rev: 2-25-13
Storm Drains Revised

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C 8.0

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